

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P571668

Luminaire Tested: **FLD4C-02-D010 FEU4C-X-90-27 F4X-W-X-H**

Issue Date: 3/1/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P571668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P206636)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/1/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: FLD4C-02-D010 FEU4C-X-90-27 F4X-W-X-H  
Description: 4 INCH FAIL-SAFE LED DOWNLIGHT WITH 2700K, 90 CRI LEDS, 4LBWH TRIM

Light Source: -  
Ballast/Driver: -

**Summary**

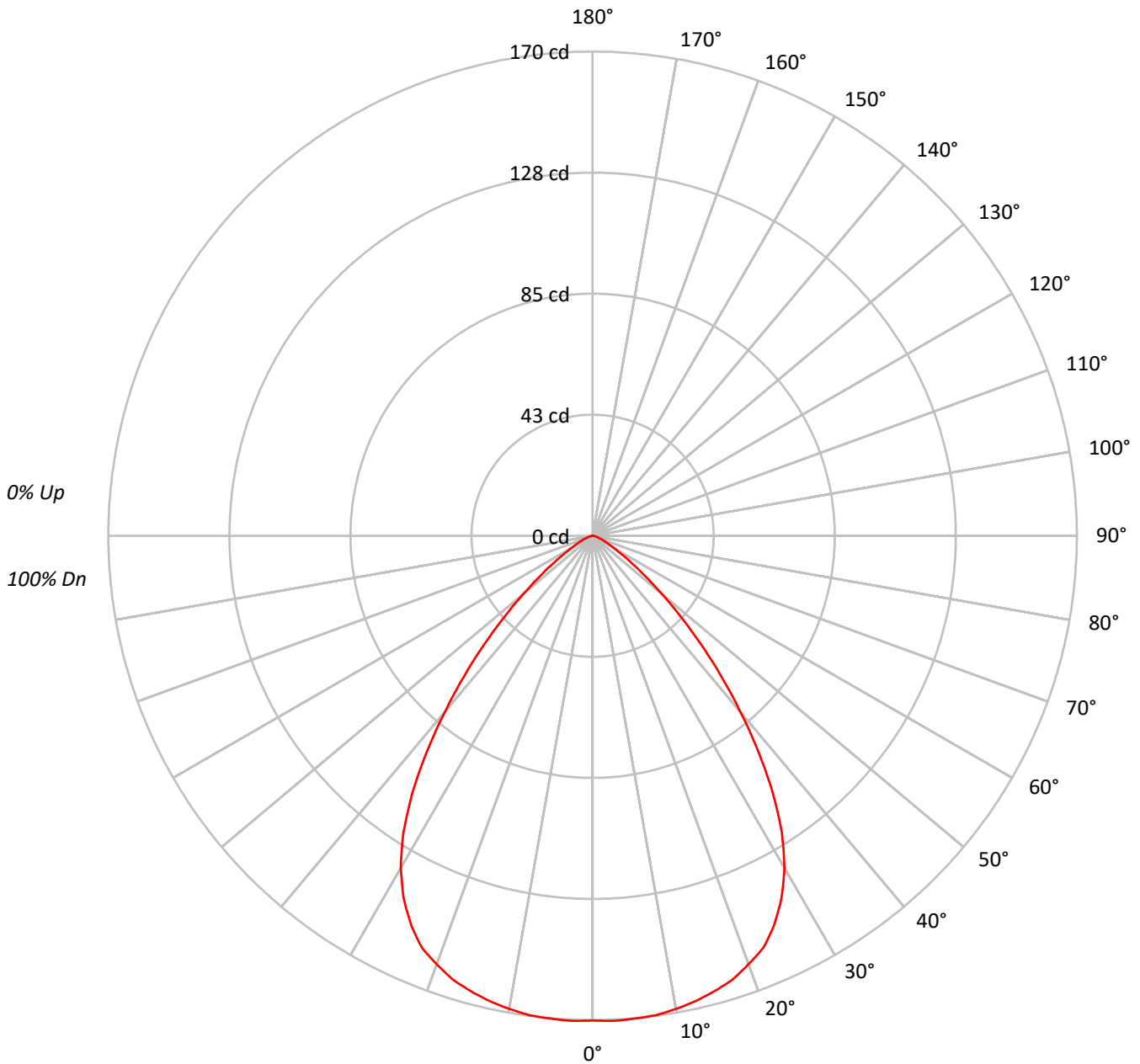
Lumens per Lamp: N/A  
Luminaire Lumens: 264.0 lumens  
Efficiency: N/A  
Efficacy: 75.4 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.17 / 1.13  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.5  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT

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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20			
RC	80				70				50				30				10		0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	75	70	78	73	70	76	72	69	67		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	61		
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	55		
7	76	65	58	53	75	65	58	53	63	57	53	62	56	52	61	56	52	50		
8	72	60	53	49	70	60	53	49	59	53	48	58	52	48	57	52	48	46		
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43		
10	64	52	46	41	63	52	46	41	51	45	41	50	45	41	49	44	41	39		

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	20910
5°	20990
10°	21045
15°	21049
20°	20931
25°	20442
30°	19108
35°	16542
40°	12926
45°	9278
50°	6020
55°	3598
60°	2113
65°	1366
70°	898
75°	665
80°	495
85°	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.2	6.1
10°-20°	46.7	17.7
20°-30°	68.9	26.1
30°-40°	68.0	25.8
40°-50°	41.6	15.8
50°-60°	15.9	6.0
60°-70°	5.0	1.9
70°-80°	1.4	0.5
80°-90°	0.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	131.8	49.9
0°-40°	199.8	75.7
0°-60°	257.3	97.5
0°-90°	264.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	264.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	170	
5°	170	16
15°	166	47
25°	151	69
35°	110	68
45°	53	42
55°	17	16
65°	5	5
75°	1	1
85°	0	0
90°	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°
0°	170.2
2.5°	170.5
5°	170.2
7.5°	169.8
10°	168.7
12.5°	167.3
15°	165.5
17.5°	163.4
20°	160.1
22.5°	156.6
25°	150.8
27.5°	143.6
30°	134.7
32.5°	123.6
35°	110.3
37.5°	95.6
40°	80.6
42.5°	66.6
45°	53.4
47.5°	41.5
50°	31.5
52.5°	23.3
55°	16.8
57.5°	11.8
60°	8.6
62.5°	6.5
65°	4.7
67.5°	3.6
70°	2.5
72.5°	1.8
75°	1.4
77.5°	0.7
80°	0.7
82.5°	0.4
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC







— 0°-180°







(END OF REPORT)